



**PATIENT**

Malibu Palima

**SPECIES**

Canine

**BREED**

Pit Mix

**SEX**

FS

**AGE**

12 years

**WEIGHT**

68.1 lbs

**INTERPRETED BY**

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

**IMAGING PERFORMED BY**

Jessica Miller

**HOSPITAL NAME**

Newton VH

**REFERRING VET**

Dr. Wyman-  
Greenwald

**INVOICE**

13521

**DATE**

3/22/22

**PRESENTING CLINICAL SIGNS**

Splenic mass suspected on radiographs, rounded liver.  
Abnormal PE/Chem/CBC/UA Results: ALKP 570, all else WNL

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder was normal in size and tone. Mild wall thickening primarily in the apical urinary bladder with intermittent mild apical polyploid component extending mildly into the urinary bladder lumen was present. The apical urinary bladder wall measured 0.7 cm in width. An example of a small polyp measured 0.6 cm length. The urethra was normal to a depth of 4.0 cm.

The area of the aortic trifurcation was free of pathology.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 6.3 cm in length. The right kidney measured 6.8 cm in length.

**Adrenal Glands**

Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland was normal in size measuring 2.8 cm length x 0.62 cm width in the caudal pole. The right adrenal gland was mildly prominent in size measuring 2.7 cm length x 0.95 cm width in the caudal pole. No overt evidence of neoplastic adrenal criteria was noted.

**Spleen**

The spleen exhibited overall normal size and primarily maintained a symmetrical capsule contour with mild splenic parenchyma heterogeneity. A solitary, primarily solid, non-cavitated, mildly expansive to nonhomogeneous yet primarily isoechoic mass was present in the mid to cranial spleen measuring 3.0-4.0 cm in diameter. The mass appeared to mildly distort the splenic capsule yet without evidence of parenchymal escape.

**Liver/ Gallbladder**

The liver exhibited mild to moderate enlargement yet primarily maintained a symmetrical capsule contour with generalized nonuniform to mildly mixed echogenic, discretely nodular parenchyma. An example of a discrete hypoechoic hepatic nodule measured 1.2 cm in diameter. The gallbladder was non-distended in size with nondependent, nonorganized mild gallbladder debris. The gallbladder was otherwise normal. The cystic and common bile ducts were normal.

**Gastrointestinal**

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction, or foreign material.



<b>PATIENT</b>	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction, or foreign material.
Malibu Palima	
<b>SPECIES</b>	Normal visible colon wall layers were present with apparent formed feces in lumen.
	<b><i>Pancreas</i></b>
Canine	The parenchyma of the left limb, body, and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease were evident.
<b>BREED</b>	
Pit Mix	
<b>SEX</b>	<b><i>Free Abdomen</i></b>
FS	No evidence of perisplenic effusion or reactive mesentery was noted. No overt lymphadenopathy was present.
<b>AGE</b>	Rapid view of the heart revealed no evidence of pericardial masses or effusion in the visible window.
12 years	
<b>WEIGHT</b>	<b>ULTRASONOGRAPHIC FINDINGS</b>
68.1 lbs	<b><i>Primary Findings</i></b>
	<ul style="list-style-type: none"> <li>• Small non-cavitated splenic mass</li> <li>• Hepatomegaly exhibiting nonuniform to discretely nodular parenchyma</li> <li>• Mild gallbladder debris (non-mucocele)</li> <li>• Age-related renal changes</li> <li>• Mild apical polyploid cystitis pattern</li> <li>• Mildly prominent right adrenal gland - nonspecific</li> </ul>
<b>INTERPRETED BY</b>	<b><u>INTERPRETATION OF THE FINDINGS &amp; FURTHER RECOMMENDATIONS</u></b>
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The splenic mass is nonspecific with considerations including hyperplasia, hematopoiesis, granuloma, splenitis, or neoplasia (sarcoma, round cell neoplasia, other).
<b>IMAGING PERFORMED BY</b>	Overall, the liver was nonspecific with considerations including; chronic vacuolar hepatopathy, hepatitis / cholangiohepatitis, with parenchymal remodeling, hematopoiesis, nodular to regenerative hyperplasia, early fibrosis, or other hepatopathy. Given the presence of the splenic mass, potential for hepatic metastasis cannot be excluded. Further assessment with pending hepatosplenic cytology is warranted.
Jessica Miller	
<b>HOSPITAL NAME</b>	
Newton VH	
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Dr. Wyman-Greenwald	
<b>INVOICE</b>	Adrenal testing could be considered In this patient if clinical signs suggestive of adrenal hyper-functionality are present.
13521	
<b>DATE</b>	Assuming no evidence of thoracic pathology on three view chest radiographs and normal clotting status, laparotomy with splenectomy and hepatic biopsies +/- apical wall biopsies could be considered.
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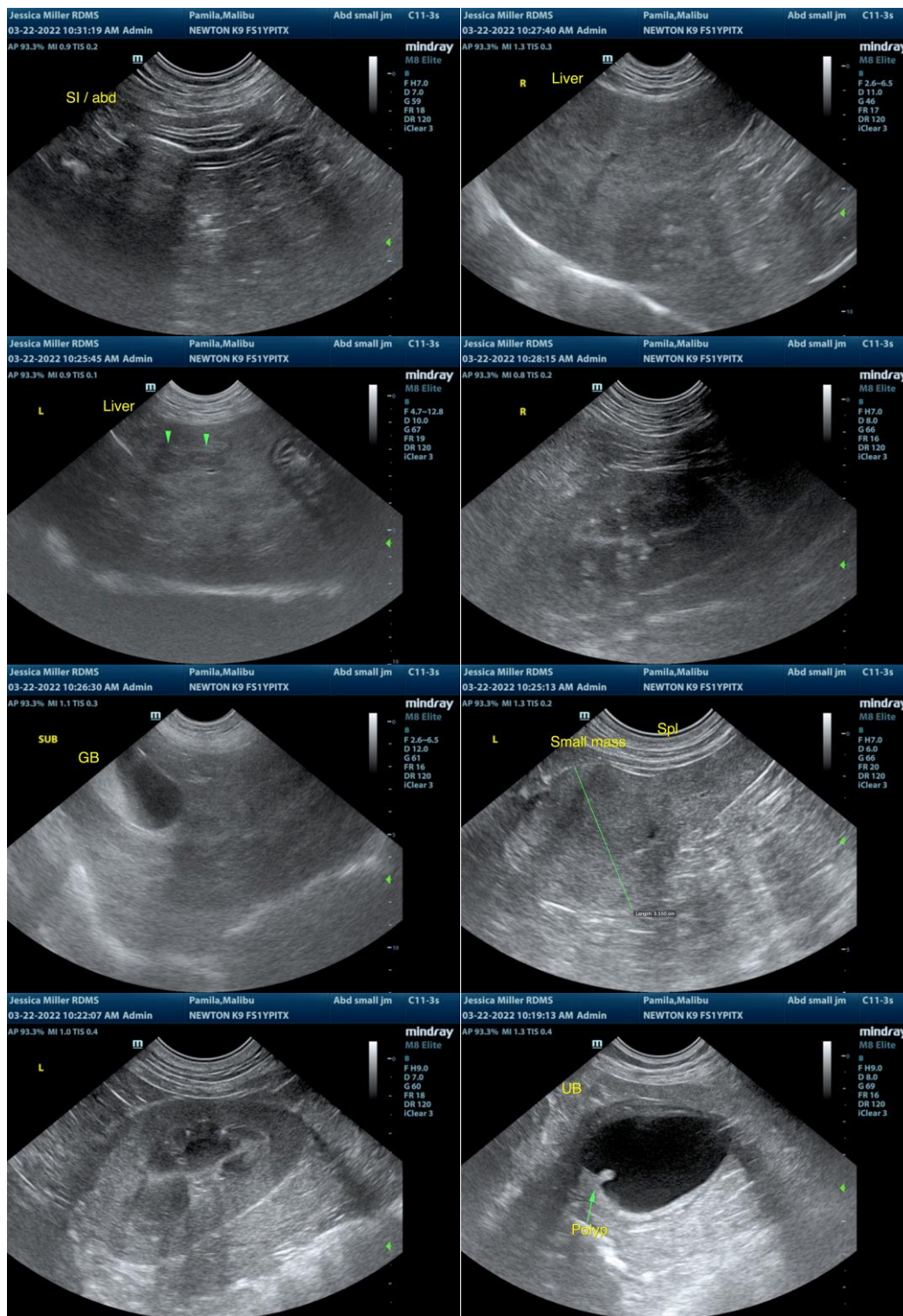
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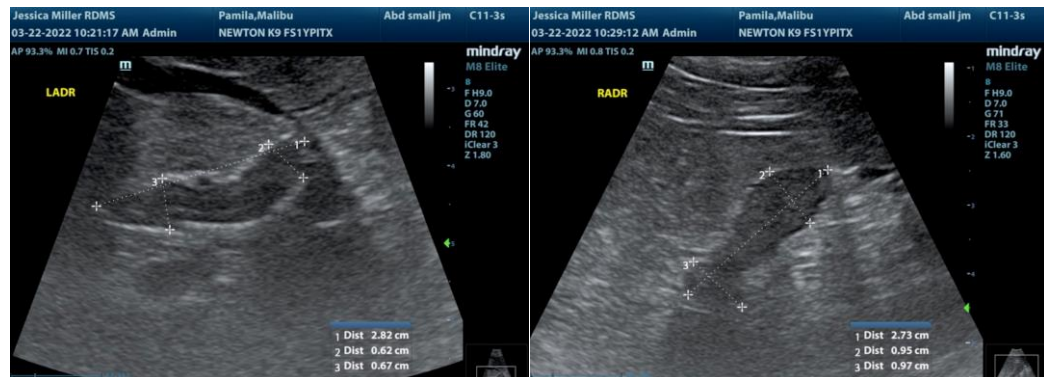
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

**R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)**  
info@SonoPath.com